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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,157	01/26/2001	Adrian P. Wise	100412(EP)USCD1X1C1D1 PDD	8565
22887 7590 10/01/2008 PIONEER NORTH AMERICA, INC. - INTELLECTUAL PROPERTY DEPARTMENT 2265 E. 220TH STREET LONG BEACH, CA 90810			EXAMINER NGUYEN, DUSTIN	
			ART UNIT 2154	PAPER NUMBER
			MAIL DATE 10/01/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 09/770,157	<b>Applicant(s)</b> WISE ET AL.	
	<b>Examiner</b> DUSTIN NGUYEN	<b>Art Unit</b> 2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 July 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>08/04/2008</u>  | 6) <input type="checkbox"/> Other: _____                          |

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### **DETAILED ACTION**

1. Claims 1-29 are presented for consideration.

#### ***Continued Examination Under 37 CFR 1.114***

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/21/2008 has been entered.

#### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-5, 7, 8, 10, 12-15, 17-20, and 22-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gonzales et al. [ US Patent No 5289577 ], in view of Whiting et al. [ US Patent No 5,016,009 ].

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5. As per claim 1, Gonzales discloses the invention as claimed including an apparatus for decompressing video data, comprising:

a start code detector to convert a portion of a stream of video data into at least a stream of data tokens in response to detecting a start code sequence in said stream of video data [ Figure 3A; col 8, lines 47-67; and col 10, lines 61-col 11, lines 5 ]; and

a pipeline having stages [ 12, Figure 1 ] [ col 2, lines 61-65 ], the start code detector being coupled to send the data tokens to the pipeline [ col 6, lines 52-67 ].

Gonzales does not specifically disclose wherein the stream of data tokens comprise a first plurality of data tokens that are associated with video data encoded in a first format and a second plurality of data tokens that are associated with video data encoded in a second format; and stages that decode the video data in the first and second formats.

Whiting discloses wherein the stream of data tokens comprise a first plurality of data tokens that are associated with video data encoded in a first format [ i.e. data character stream ] [ Abstract; col 8, lines 25-28; and col 18, lines 34-36 ] and a second plurality of data tokens that are associated with video data encoded in a second format [ i.e. receive string ] [ Figure 4; col 8, lines 16-28; col 9, lines 41-48; and col 10, lines 51-56 ]; and stages that decode the video data in the first and second formats [ i.e. decode to determine raw data tag or data string ] [ col 7, lines 26-44 ].

It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Gonzales and Whiting because the teaching of Whiting would enable to increase the capacity of digital storage and achieve higher compression ratios [ Whiting, col 5, lines 50-59 ].

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6. As per claim 2, Gonzales discloses a plurality of the stages of said pipeline have operating modes responsive to the format of said tokens [ col 13, lines 1-26 ].
7. As per claim 3, Gonzales discloses an inserter of search mode tokens to transmit search mode tokens into the stream of video data [ col 11, lines 25-41 ].
8. As per claim 4, Gonzales discloses the start code detector is capable of searching for video start codes complying with different formats [ col 9, lines 40-col 10, lines 11 ].
9. As per claim 5, Gonzales discloses formats complying with at least two of the video standards selected from the group consisting of JPEG [ col 7, lines 26-36 ], MPEG [ col 13, lines 34-49 ], and H.261.
10. As per claim 7, Gonzales discloses two-wire interfaces coupling the consecutive stages of the pipeline [ 16a, 16b, Figure 1 ].
11. As per claim 8, Gonzales discloses the two-wire interfaces transmit data valid and data acceptance signals [ col 5, lines 5-50 ].

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12. As per claim 10, Gonzales discloses a portion of the stages of the pipeline reconfigure themselves to process data in response to receiving predetermined types of tokens [ col 13, lines 4-15 ].

13. As per claim 12, Gonzales discloses the start code detector is a hardware device [ col 9, lines 55-59 ].

14. As per claim 13, Gonzales discloses  
a Huffman decoder coupled to receive data from the start code detector [ col 7, lines 45-55 ];  
a token formatter coupled to data from the Huffman decoder [ col 7, lines 37-45 ];  
an inverse modeler coupled to receive data from the token formatter [ Figure 5 ]; and  
an inverse quantizer coupled to receive data from the inverse modeler [ Figure 5 ].

15. As per claim 14, it is method claimed of claims 11-4, it is rejected for similar reasons as stated in claims 1-4.

16. As per claim 15, Gonzales discloses  
making a random access into the data stream to receive the portion of the video stream [ col 12, lines 14-16 ]; and  
wherein the search mode token is inserted in response to making the random access [ col 12, lines 17-35 ].

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17. As per claim 17, it is method claimed of claim 10, it is rejected for similar reason as stated above in claim 10.

18. As per claim 18, it is method claimed of claim 5, it is rejected for similar reason as stated above in claim 5.

19. As per claim 19, 20, 22 and 23, they are rejected for similar reasons as stated above in claims 14, 15, 17 and 18 respectively.

20. As per claim 24, Gonzales discloses a semiconductor substrate, the pipeline, means for inserting and start code detector being located on the substrate [ memory ] [ Abstract ].

21. As per claims 25-29, they are rejected for similar reasons as stated above in claims 1-5 and 12.

22. Claims 6, 9, 11, 16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gonzales et al. [ US Patent No 5289577 ], in view of Whiting et al. [ US Patent No 5,016,009 ], and further in view of Normile et al. [ US Patent No 5,461,679 ].

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23. As per claim 6, Gonzales and Whiting do not specifically disclose the start code detector ignores video data until a video start code is found in response to receiving one of the search mode tokens. Normile discloses the start code detector ignores video data until a video start code is found in response to receiving one of the search mode tokens [ col 13, lines 47-col 14, lines 9; and col 16, lines 29-32 ]. It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Gonzales, Whiting and Normile because Normile's teaching of start code detector would provide a method to allow compressed moving video images to be decompressed and displayed in real time [ Normile, col 7, lines 35-37 ].

24. As per claim 9, Normile discloses the start code detector is adapted to introduce new tokens into the stream of video data at detected start code sequences [ col 13, lines 47-col 14, lines 9; and col 16, lines 26-29 ].

25. As per claim 11, Normile discloses the start code detector introduces picture end tokens into the stream of video data [ col 8, lines 4-24 ].

26. As per claims 16 and 21, Gonzales and Whiting do not specifically disclose the random access results from one of an error and a channel switch. Normile discloses the random access results from one of an error and a channel switch [ col 13, lines 27-47 ]. It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Gonzales, Whiting and Normile because Normile's teaching of random access would provide data integrity in communication network.



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27. Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

28. A shortened statutory period for response to this action is set to expire **3 (three) months and 0 (zero) days** from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 U.S.C 133, M.P.E.P 710.02, 710.02(b)).

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dustin Nguyen whose telephone number is (571) 272-3971. The examiner can normally be reached on flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Flynn Nathan can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dustin Nguyen/  
Examiner, Art Unit 2154